Author Search

```
=> FILE HCAPLUS
FILE 'HCAPLUS' ENTERED AT 12:58:28 ON 07 JUN 2008
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FILE COVERS 1907 - 7 Jun 2008  VOL 148 ISS 24
FILE LAST UPDATED: 6 Jun 2008  (20080606/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.
'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D QUE L25
L6               STR
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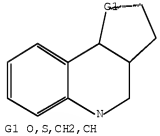

G1 O,S,CH2,CH

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Structure attributes must be viewed using STN Express query preparation:
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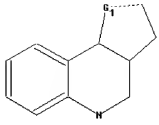

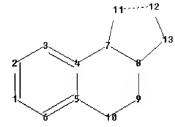


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ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13
ring bonds :
1-2  1-6  2-3  3-4  4-5  4-7  5-6  5-10  7-8  7-11  8-9  8-13  9-10  11-12  12-13

exact/norm bonds :
4-7  5-10  7-8  7-11  8-9  8-13  9-10  11-12  12-13
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


G1:O,S,CH2,CH

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom



L8        13557 SEA FILE=REGISTRY SSS FUL L6
L11             STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation:
Uploading strC.str
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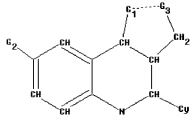

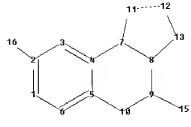


```
chain nodes :
15  16
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13
chain bonds :
2-16  9-15
```

```
ring bonds :
1-2  1-6  2-3  3-4  4-5  4-7  5-6  5-10  7-8  7-11  8-9  8-13  9-10  11-12  12-13

exact/norm bonds :
2-16  4-7  5-10  7-8  7-11  8-9  8-13  9-10  9-15  11-12  12-13
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


G1:O,S,CH2,CH

G2:S,N

G3:CH2,CH

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  15:Atom  16:CLASS



L13        2767 SEA FILE=REGISTRY SUB=L8 SSS FUL L11
L15          14 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13
L16           8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15 AND (PRY<=2004 OR
                AY<=2004 OR PY<=2004)
L17        1519 SEA FILE=HCAPLUS ABB=ON  PLU=ON  BECKER C?/AU
L18          88 SEA FILE=HCAPLUS ABB=ON  PLU=ON  COMSTOCK J?/AU
L19          59 SEA FILE=HCAPLUS ABB=ON  PLU=ON  MICHNE W?/AU
L20        2618 SEA FILE=HCAPLUS ABB=ON  PLU=ON  MURPHY M?/AU
L21         636 SEA FILE=HCAPLUS ABB=ON  PLU=ON  PHILLIPS E?/AU
L22          61 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ROSAMOND J?/AU
L23         671 SEA FILE=HCAPLUS ABB=ON  PLU=ON  SIMPSON T?/AU
L24        5636 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L17 OR L18 OR L19 OR L20 OR
                L21 OR L22 OR L23)
L25           1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L24 AND L16


=> D IBIB ED ABS L25 HITSTR 1

L25  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2004:995974  HCAPLUS  Full-text
DOCUMENT NUMBER:          141:424118
TITLE:                    A preparation of cyclopenta[c]quinoline derivatives,
                          useful as positive modulators of nicotinic
                          acetylcholine receptors
INVENTOR(S):              Becker, Christopher; Comstock,
                          Jeanne; Michne, William F.;
                          Murphy, Megan; Phillips, Eifion;
                          Rosamond, James D.; Simpson, Thomas R.
PATENT ASSIGNEE(S):       Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE:                   PCT Int. Appl., 35 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.          DATE
     --------------      ----   --------    -------------------      --------
     WO 2004098600        A1    20041118    WO 2004-GB1934           20040504 <--
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EP	1631288	A1	20060308	EP 2004-731052	20040504 <--
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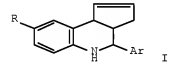
NO	2005005766	A	20051205	NO 2005-5766	20051205 <--
US	20070179172	A1	20070802	US 2006-553915	20060713 <--
PRIORITY APPLN. INFO.:				SE 2003-1320 A	20030506 <--
				WO 2004-GB1934 W	20040504 <--

OTHER SOURCE(S): MARPAT 141:424118
ED Entered STN: 19 Nov 2004
GI



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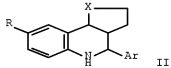


II

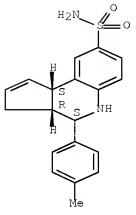
AB The invention relates to a preparation of cyclopenta[c]quinoline derivs. of formulas I and II [wherein: X is O, S, or CH2; R1 is OH, NH2, N(alkyl)2, SO2NH2, or C(O)N(alkyl)2, etc.; Ar is furyl, pyridyl, thienyl, Ph, or naphthyl, etc.], useful as pos. modulators of nicotinic acetylcholine receptors. For instance, cyclopenta[c]quinoline derivative I (Ar is 1-naphthyl; R = SO2NH2) was prepared from 1-naphthalenecarboxaldehyde, cyclopentadiene, and 4-aminobenzenesulfonamide with a yield of 69%. The invention compds. were screened for biol. activity in the following tests: a) Xenopus oocyte current recording, and b) Ca++ flux imaging [the invention compds. cause 100% potentiation (2-fold increase) of baseline current].

IT 794586-91-7P 794586-92-8P
RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)
(preparation of cyclopenta[c]quinoline derivs. useful as pos. modulators of nicotinic acetylcholine receptors)

RN 794586-91-7 HCAPLUS

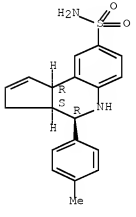
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(4-methylphenyl)-, (3aR,4S,9bS)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (+).



RN 794586-92-8 HCAPLUS
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(4-methylphenyl)-, (3aS,4R,9bR)- (CA INDEX NAME)

Absolute stereochemistry. Rotation (-).



IT 318466-00-1P 353483-92-8P 354820-38-5P
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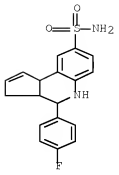
794586-84-8P 794586-85-9P 794586-87-1P
794586-88-2P 794586-89-3P 794586-90-6P
794586-93-9P 794586-94-0P 794586-95-1P
794586-96-2P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of cyclopenta[c]quinoline derivs. useful as pos. modulators of nicotinic acetylcholine receptors)
RN 318466-00-1 HCAPLUS
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 4-(4-fluorophenyl)-3a,4,5,9b-tetrahydro- (CA INDEX NAME)



RN 353483-92-8 HCAPLUS
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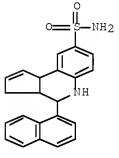

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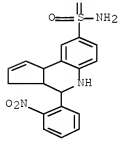

RN 794586-70-2 HCAPLUS
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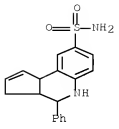

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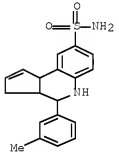

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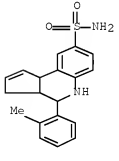

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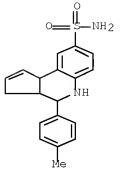

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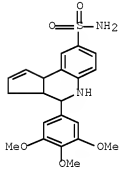

RN 794586-83-7 HCAPLUS
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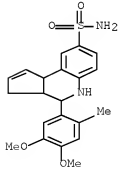

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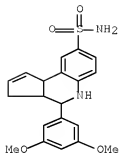

RN 794586-85-9 HCAPLUS
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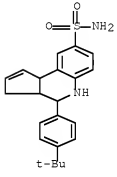
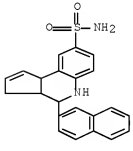


RN 794586-87-1 HCAPLUS
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(2-naphthalenyl)- (CA INDEX NAME)



RN 794586-88-2 HCAPLUS
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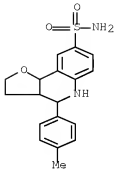
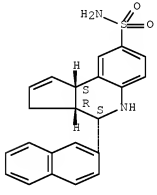


RN 794586-89-3 HCAPLUS
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(2-naphthalenyl)-, (3aR,4S,9bS)- (CA INDEX NAME)

Absolute stereochemistry.



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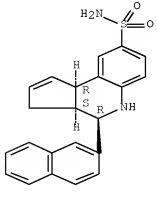
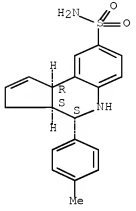
Absolute stereochemistry.



RN 794586-93-9 HCAPLUS
CN 3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(4-methylphenyl)-, (3aS,4S,9bR)- (CA INDEX NAME)

Absolute stereochemistry.



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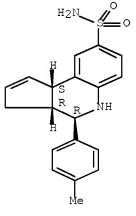
Absolute stereochemistry.



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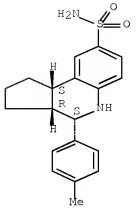
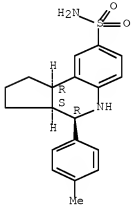
Absolute stereochemistry.



RN 794586-96-2 HCAPLUS
CN 1H-Cyclopenta[c]quinoline-8-sulfonamide, 2,3,3a,4,5,9b-hexahydro-4-(4-methylphenyl)-, (3aS,4R,9bR)- (CA INDEX NAME)

Absolute stereochemistry.



REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Structure Search

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=> FILE HCAPLUS
FILE 'HCAPLUS' ENTERED AT 12:59:11 ON 07 JUN 2008
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FILE COVERS 1907 - 7 Jun 2008  VOL 148 ISS 24
FILE LAST UPDATED: 6 Jun 2008  (20080606/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D QUE L16
L6              STR
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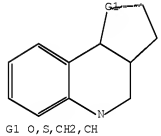

G1 O,S,CH2,CH

```
Structure attributes must be viewed using STN Express query preparation.
L8        13557 SEA FILE=REGISTRY SSS FUL L6
L11             STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L13        2767 SEA FILE=REGISTRY SUB=L8 SSS FUL L11
L15          14 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13
L16           8 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15 AND (PRY<=2004 OR
                AY<=2004 OR PY<=2004)


=> S L16 NOT L25
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```
L38          7 L16 NOT L25

=> FILE WPIX
FILE 'WPIX' ENTERED AT 12:59:32 ON 07 JUN 2008
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FILE LAST UPDATED:                        4 JUN 2008   <20080604/UP>
MOST RECENT THOMSON SCIENTIFIC UPDATE:     200835      <200835/DW>
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>>> IPC Reform backfile reclassifications have been loaded to the end of
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    reclassified documents, but they can be identified by
    20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC,
    20071130/UPIC and 20080401/UPIC.
    ECLA reclassifications to April and US national classifications to
    the end of January 2008 have also been loaded. Update dates
    20080401/UPEC and /UPNC have been assigned to these. <<<

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FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
http://scientific.thomsonreuters.com/support/patents/coverage/latestupdates/

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0:
http://www.stn-international.com/archive/presentations/DWPIAnaVist2_0710.pdf

>>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<

>>> Updated PDF files in the following links:
    http://www.stn-international.de/stndatabases/details/ico_0803.zip
    http://www.stn-international.de/stndatabases/details/epc_0803.zip
    Supplement of all changed ECLA items:
    http://www.stn-international.de/stndatabases/details/ecla_0805s.zip <<<

>>> Please note that the COPYRIGHT notification has changed <<<
'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE

=> D QUE L33
L30              STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation:
Uploading strD.str
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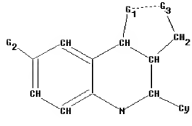

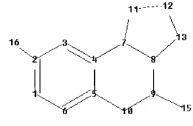

chain nodes :

```
15  16  19  20  21  22
ring nodes :
1  2  3  4  5  6  7  8  9  10  11  12  13
chain bonds :
2-16  9-15  19-20  21-22
ring bonds :
1-2  1-6  2-3  3-4  4-5  4-7  5-6  5-10  7-8  7-11  8-9  8-13  9-10  11-12  12-13

exact/norm bonds :
2-16  4-7  5-10  7-8  7-11  8-9  8-13  9-10  9-15  11-12  12-13  19-20  21-22
normalized bonds :
1-2  1-6  2-3  3-4  4-5  5-6


G1:O,S,CH2,CH

G2:[*1],[*2]

G3:CH2,CH

Match level :
1:Atom  2:Atom  3:Atom  4:Atom  5:Atom  6:Atom  7:Atom  8:Atom  9:Atom  10:Atom
11:Atom  12:Atom  13:Atom  15:Atom  16:CLASS  19:CLASS  20:CLASS  21:CLASS
22:CLASS



L32          26 SEA FILE=WPIX SSS FUL L30
L33           0 SEA FILE=WPIX ABB=ON  PLU=ON  L32 AND (PRY<=2004 OR AY<=2004
                OR PY<=2004)
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```
=> FILE BEILSTEIN
FILE 'BEILSTEIN' ENTERED AT 12:59:53 ON 07 JUN 2008
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FILE LAST UPDATED ON April 1, 2008

FILE COVERS 1771 TO 2008.
*** FILE CONTAINS 10.322,808  SUBSTANCES ***

>>>PLEASE NOTE: Reaction Data and substance data are stored in
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   Reaction data for BEILSTEIN compounds may be displayed
   immediately with the display codes PRE (preparations) and REA
   (reactions).  A substance answer set retrieved after the search
   for a chemical name, a compounds with available reaction
   information by combining with PRE/FA, REA/FA or more generally
   with RX/FA. The BEILSTEIN Registry Number (BRN) is the link
   between a BEILSTEIN compound and belonging reactions. For mo
   detailed reaction searches BRNs can be searched as reaction
   partner BRNs Reactant BRN (RX.RBRN) or Product BRN (RX.PBRN).<<<

>>> FOR SEARCHING PREPARATIONS SEE HELP PRE  <<<

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    Search fees re-introduced. See NEWS and HELP COST <<<

=> D QUE L35
L30             STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L35           0 SEA FILE=BEILSTEIN SSS FUL L30
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```
=> FILE MARPAT
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FILE CONTENT: 1961-PRESENT VOL 148 ISS 21 (20080530/ED)

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MOST RECENT CITATIONS FOR PATENTS FROM MAJOR ISSUING AGENCIES
(COVERAGE TO THESE DATES IS NOT COMPLETE):

US  20080090937 17 APR 2008
DE 102006048130 10 APR 2008
EP      1909102 09 APR 2008
JP   2008098097 24 APR 2008
WO   2008046285 24 APR 2008
GB      2441892 19 MAR 2008
FR      2907005 18 APR 2008
RU      2322475 20 APR 2008
CA      2562661 05 APR 2008

Expanded G-group definition display now available.

Effective December 15th the iteration and answer limits in MARPAT
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SLIMITS at an arrow prompt.

=> D QUE L37
L30             STR
*** STRUCTURE DIAGRAM IS NOT AVAILABLE ***

Structure attributes must be viewed using STN Express query preparation.
L37           4 SEA FILE=MARPAT SSS FUL L30


=> DUP REM L38 L33 L35 L37
L33 HAS NO ANSWERS
L35 HAS NO ANSWERS
DUPLICATE IS NOT AVAILABLE IN 'BEILSTEIN'.
ANSWERS FROM THESE FILES WILL BE CONSIDERED UNIQUE
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PROCESSING COMPLETED FOR L38
PROCESSING COMPLETED FOR L33
PROCESSING COMPLETED FOR L35
PROCESSING COMPLETED FOR L37
L39           11 DUP REM L38 L33 L35 L37 (0 DUPLICATES REMOVED)
                 ANSWERS '1-7' FROM FILE HCAPLUS
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ANSWERS '8-11' FROM FILE MARPAT

=> D IBIB ED ABS HITSTR L39 1-7; D IBIB AB QHIT L39 8-11

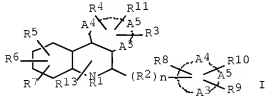
L39 ANSWER 1 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2004:696357 HCAPLUS Full-text
DOCUMENT NUMBER: 141:243351
TITLE: Preparation of tetrahydroquinolines as nuclear receptors modulators
INVENTOR(S): Koutnikova, Hana; Sierra, Michael; Braun-Egles, Anne; Marsol, Claire; Klotz, Evelyne; Lehmann, Juergen
PATENT ASSIGNEE(S): Carex S.A., Fr.
SOURCE: PCT Int. Appl., 166 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004072046	A2	20040826	WO 2004-EP1280	20040211 <--
WO 2004072046	A3	20041021		

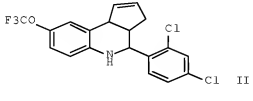
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI
RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.:	EP 2003-360025	A	20030212 <--
	EP 2003-360029	A	20030212 <--
	US 2003-456955P	P	20030325 <--
	EP 2003-360083	A	20030704 <--

OTHER SOURCE(S): MARPAT 141:243351
ED Entered STN: 26 Aug 2004
GI



I



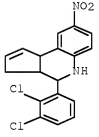
II

AB Title compds. represented by the formula I [wherein R1 = H, Cl, F, (cyclo)alkyl, alkylcycloalkyl, CF3, etc.; R2, R14 = independently CH2, (CH2)A1(CH2) or (CH2)A1(CH2)A2(CH2); a, b, c = independently 0-4; A1, A2 = independently CO, O, SO2, etc.; R3-R4, R8-R11 = independently H, amino, alkyl, halo, etc.; R12 = H, Cl, CF3, (cyclyl)alkyl, etc.; R13 = H, hydroxy, alkyl, carboxylic acid, etc.; R5-R7 = independently (R14)-R12; n = 0-6; A3-A5 = independently C, N, O, S; and analogs, derivs., solvates or salts thereof] were prepared as liver-receptors (LXR) modulators. For example, reaction of 4-trifluoromethoxyphenylamine with 2,4-dichlorobenzaldehyde and cyclopentadiene gave II in 70% yield. II was tested for dose response induction of ABCA1, FAS, SREBP1c and Angtp13 gene expression, HDL cholesterol plasma and liver triglyceride levels change. In addition, I were tested for binding activity with human LXRα and LXRβ (Ki = 1000-3000 nM), activation of gene implicated in cholesterol efflux, etc. Thus, I and their pharmaceutical compns. are useful for the prevention or treatment of hyperlipidemia, obesity, type II diabetes, atherosclerosis, ischemic heart disease, peripheral vascular disease, cerebral vascular disease, hypercholesterolemia, hypertriglyceridemia, pancreatitis or coronary artery disease.

IT 353484-19-2P 471916-92-4P, CRX 000765
746661-74-5P, CRX 000794 746662-36-2P, CRX 001018
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of tetrahydroquinolines as nuclear receptor modulators)

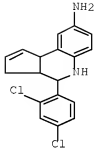
RN 353484-19-2 HCAPLUS

CN 3H-Cyclopenta[c]quinoline, 4-(2,3-dichlorophenyl)-3a,4,5,9b-tetrahydro-8-nitro- (CA INDEX NAME)

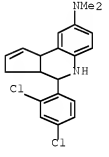


RN 471916-92-4 HCAPLUS

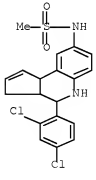
CN 3H-Cyclopenta[c]quinolin-8-amine, 4-(2,4-dichlorophenyl)-3a,4,5,9b-tetrahydro- (CA INDEX NAME)



RN 746661-74-5 HCAPLUS
CN 3H-Cyclopenta[c]quinolin-8-amine, 4-(2,4-dichlorophenyl)-3a,4,5,9b-tetrahydro-N,N-dimethyl- (CA INDEX NAME)

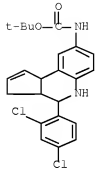


RN 746662-36-2 HCAPLUS
CN Methanesulfonamide, N-[4-(2,4-dichlorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinolin-8-yl]- (CA INDEX NAME)



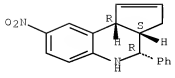
IT 745788-80-1P
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(preparation of tetrahydroquinolines as nuclear receptor modulators)
RN 745788-80-1 HCAPLUS

CN Carbamic acid, [4-(2,4-dichlorophenyl)-3a,4,5,9b-tetrahydro-3H-cyclopenta[c]quinolin-8-yl]-, 1,1-dimethylethyl ester (9CI) (CA INDEX NAME)



L39 ANSWER 2 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2002:127450 HCAPLUS Full-text
DOCUMENT NUMBER: 136:386008
TITLE: Urea nitrate catalyzed imino Diels-Alder reactions: synthesis of cyclopentaquinolines, pyranoquinolines, and furoquinoline derivatives
AUTHOR(S): Anniyappan, Marimuthu; Nagarajan, Rajagopal; Perumal, Paramasivan T.
CORPORATE SOURCE: Organic Chemistry Division, Central Leather Research Institute, Chennai, 600 020, India
SOURCE: Synthetic Communications (2002), 32(1), 99-103
CODEN: SYNCAV; ISSN: 0039-7911
PUBLISHER: Marcel Dekker, Inc.
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 136:386008
ED Entered STN: 19 Feb 2002
AB Urea nitrate is an efficient catalyst for the imino Diels-Alder reaction of aldimines with cyclopentadiene, 3,4-dihydropyran and dihydrofuran that is reported for the first time. One pot synthesis of cyclopentaquinolines from benzaldehyde, aromatic amines with cyclopentadiene catalyzed by urea nitrate is also reported.
IT 122059-89-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of quinoline derivs. by imino Diels-Alder reactions using urea nitrate catalyst)
RN 122059-89-6 HCAPLUS
CN 3H-Cyclopenta[c]quinoline, 3a,4,5,9b-tetrahydro-8-nitro-4-phenyl-, (3aR,4S,9bS)-rel- (CA INDEX NAME)

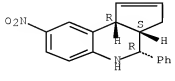
Relative stereochemistry.



REFERENCE COUNT: 12 THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 3 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2001:503697 HCAPLUS Full-text
DOCUMENT NUMBER: 135:228480
TITLE: Clay/water mixtures - a heterogeneous and ecologically efficient catalyst for the three-component stereoselective synthesis of tetrahydroquinolines
AUTHOR(S): Sartori, Giovanni; Bigi, Franca; Maggi, Raimondo; Mazzacani, Alessandro; Oppici, Giovanni
CORPORATE SOURCE: Dipartimento di Chimica Organica e Industriale dell'Universita, Parma, 43100, Italy
SOURCE: European Journal of Organic Chemistry (2001), (13), 2513-2518
CODEN: EJOCFK; ISSN: 1434-193X
PUBLISHER: Wiley-VCH Verlag GmbH
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 12 Jul 2001
AB The three-component synthesis of tetrahydroquinolines from aromatic amines, aromatic aldehydes, and cyclopentadiene was efficiently performed in water in the presence of com. bentonite Bieliaca. The overall process involves the rapid initial production of corresponding imines, which subsequently undergo aza-cycloaddn. processes with cyclopentadiene, affording products in good yield and with excellent selectivity. The cycloaddn. step is regiospecific and stereospecific, exclusively giving the endo product. It was possible to reuse the catalyst several times without lowering its efficiency. The process represents a clean and environmentally friendly route for the production of a class of natural products displaying a wide range of biol. activity.
IT 122059-89-6P
RL: IMF (Industrial manufacture); PREP (Preparation)
(clean and efficient bentonite Bieliaca catalyst in stereoselective aza-cycloaddn. of amines and aldehydes and cyclopentadiene in preparation of
tetrahydroquinolines)
RN 122059-89-6 HCAPLUS
CN 3H-Cyclopenta[c]quinoline, 3a,4,5,9b-tetrahydro-8-nitro-4-phenyl-, (3aR,4S,9bS)-rel- (CA INDEX NAME)

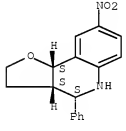
Relative stereochemistry.



REFERENCE COUNT: 45 THERE ARE 45 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

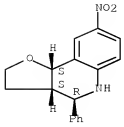
L39 ANSWER 4 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1999:479420 HCAPLUS Full-text
DOCUMENT NUMBER: 131:257455
TITLE: Lanthanide Chloride Catalyzed Imino Diels-Alder Reaction. One-Pot Synthesis of Pyrano[3,2-c]- and Furo[3,2-c]quinolines
AUTHOR(S): Ma, Yun; Qian, Changtao; Xie, Meihua; Sun, Jie
CORPORATE SOURCE: Laboratory of Organometallic Chemistry Shanghai Institute of Organic Chemistry, Chinese Academy of Sciences, Shanghai, 200032, Peop. Rep. China
SOURCE: Journal of Organic Chemistry (1999), 64(17), 6462-6467
CODEN: JOCEAH; ISSN: 0022-3263
PUBLISHER: American Chemical Society
DOCUMENT TYPE: Journal
LANGUAGE: English
OTHER SOURCE(S): CASREACT 131:257455
ED Entered STN: 04 Aug 1999
AB GdCl3 is an effective catalyst both in the reaction of imines with dihydropyran or dihydrofuran and in the one-pot reaction of anilines with aldehydes and dihydropyran or dihydrofuran, giving pyrano- and furo[3,2-c]quinolines in high yields under mild conditions.
IT 244775-73-3P 244775-74-4P
RL: SPN (Synthetic preparation); PREP (Preparation)
(gadolinium chloride-catalyzed Diels-Alder reaction of anilines with aldehydes and dihydropyran or dihydrofuran)
RN 244775-73-3 HCAPLUS
CN Furo[3,2-c]quinoline, 2,3,3a,4,5,9b-hexahydro-8-nitro-4-phenyl-, (3aR,4R,9bR)-rel- (CA INDEX NAME)

Relative stereochemistry.

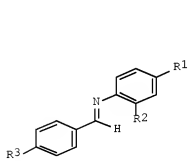


RN 244775-74-4 HCAPLUS
CN Furo[3,2-c]quinoline, 2,3,3a,4,5,9b-hexahydro-8-nitro-4-phenyl-, (3aR,4S,9bR)-rel- (CA INDEX NAME)

Relative stereochemistry.



L39 ANSWER 5 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 1998:104075 HCAPLUS Full-text
DOCUMENT NUMBER: 128:180323
TITLE: Indium trichloride (InCl3) catalyzed imino Diels-Alder reactions: an efficient synthesis of cyclopentaquinolines, azabicyclooctanones and azabicyclononanes
AUTHOR(S): Babu, Govindarajulu; Perumal, Paramasivan T.
CORPORATE SOURCE: Organic Chemistry Division, Central Leather Research Institute, Adyar, Chennai, 600 020, India
SOURCE: Tetrahedron (1998), 54(8), 1627-1638
CODEN: TETRAB; ISSN: 0040-4020
PUBLISHER: Elsevier Science Ltd.
DOCUMENT TYPE: Journal
LANGUAGE: English
ED Entered STN: 21 Feb 1998
GI



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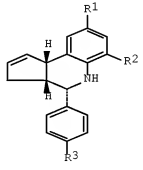
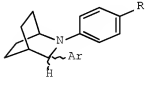
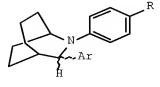


II



III



IV

AB Anhydrous indium trichloride (InCl3) is found to catalyze the imino Diels-Alder reactions of Schiff's bases I (R1 = H, NO2, OMe, Cl, R2 = H, Me, CO2H,

Et, NO2, R3 = H, Me, Cl) with cyclopentadiene, cyclohexen-2-one and cyclohepten-2-one which resulted in facile synthesis of cyclopentaquinolines II, azabicyclooctanones III, and previously unreported series of azabicyclononanones IV.

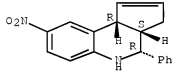
IT 122059-89-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of cyclopentaquinolines, azabicyclooctanones, and azabicyclononanones by indium trichloride-catalyzed Diels-Alder reactions)

RN 122059-89-6 HCAPLUS

CN 3H-Cyclopenta[c]quinoline, 3a,4,5,9b-tetrahydro-8-nitro-4-phenyl-, (3aR,4S,9bS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 6 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1997:468534 HCAPLUS Full-text

DOCUMENT NUMBER: 127:161687

TITLE: Imino Diels-Alder reactions catalyzed by indium trichloride (InCl3). Facile synthesis of quinoline and phenanthridinone derivatives

AUTHOR(S): Babu, Govindarajulu; Perumal, Paramasivan T.

CORPORATE SOURCE: Organic Chemistry Division, Central Leather Research Institute, Chennai, 600 020, India

SOURCE: Tetrahedron Letters (1997), 38(28), 5025-5026
CODEN: TELEAY; ISSN: 0040-4039

PUBLISHER: Elsevier

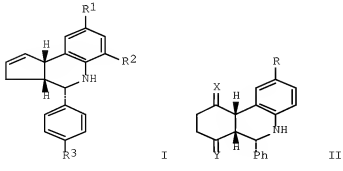
DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 127:161687

ED Entered STN: 26 Jul 1997

GI



I II

AB Anhydrous indium trichloride (InCl3) catalyzes the imino Diels–Alder reaction and results in facile synthesis of quinoline derivs. I (R1 = H, NO2, OMe, Cl, R2 = H, Me, CO2H, Et, NO2, R3 = H, Me, Cl). A previously unreported series of phenanthridinones II (R = H, NO2, OMe, Cl, X = O, Y = H2; X = H2, Y = O) was obtained by the treatment of cyclohexenone with Schiff bases.

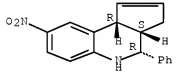
IT 122059-89-6P

RL: SPN (Synthetic preparation); PREP (Preparation)
(InCl3-catalyzed Diels-Alder reaction of Schiff bases with cyclohexenone or cyclopentadiene)

RN 122059-89-6 HCAPLUS

CN 3H-Cyclopenta[c]quinoline, 3a,4,5,9b-tetrahydro-8-nitro-4-phenyl-, (3aR,4S,9bS)-rel- (CA INDEX NAME)

Relative stereochemistry.



REFERENCE COUNT: 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 7 OF 11 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1989:497058 HCAPLUS Full-text

DOCUMENT NUMBER: 111:97058

ORIGINAL REFERENCE NO.: 111:16321a,16324a

TITLE: Role reversal in the cyclocondensation of cyclopentadiene with heterodienophiles derived from arylamines and aldehydes: synthesis of novel tetrahydroquinolines

AUTHOR(S): Grieco, Paul A.; Bahsas, Ali

CORPORATE SOURCE: Dep. Chem., Indiana Univ., Bloomington, IN, 47405, USA

SOURCE: Tetrahedron Letters (1988), 29(46), 5855-8
CODEN: TELEAY; ISSN: 0040-4039

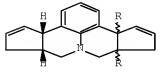
DOCUMENT TYPE: Journal

LANGUAGE: English

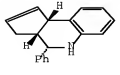
OTHER SOURCE(S): CASREACT 111:97058

ED Entered STN: 16 Sep 1989

GI



I



II

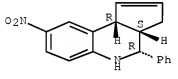
AB Immonium ions derived from arylamines and aldehydes function not as heterodienophiles but rather as heterodienes in the presence of cyclopentadiene, giving rise to novel tetrahydroquinolines. Thus, PhNH+:CH2 CF3CO2-, prepared in situ from PhNH2, CF3CO2H, and HCHO, reacted with cyclopentadiene to give a mixture of pentacyclic quinolizine derivs. I (R = α-H, β-H). The structures of I (R = α-H) and of tetrahydroquinoline derivative II, prepared from PhCH:NPh, CF3CO2H, and cyclopentadiene, were determined by x-ray crystallog.

IT 122059-89-6P
RL: SPN (Synthetic preparation); PREP (Preparation)
(preparation of)

RN 122059-89-6 HCAPLUS

CN 3H-Cyclopenta[c]quinoline, 3a,4,5,9b-tetrahydro-8-nitro-4-phenyl-, (3aR,4S,9bS)-rel- (CA INDEX NAME)

Relative stereochemistry.



L39 ANSWER 8 OF 11 MARPAT COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 142:261406 MARPAT Full-text

TITLE: Preparation of tetrahydroquinoline derivatives as hepatocyte nuclear factor 4 modulators

INVENTOR(S): Michellys, Pierre; Chen, Jyun-hung; Meyer, Hoyt; Karanewsky, Donald

PATENT ASSIGNEE(S): Ligand Pharmaceuticals Incorporated, USA

SOURCE: PCT Int. Appl., 97 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

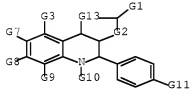
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005016255	A2	20050224	WO 2004-US23093	20040716
WO 2005016255	A3	20050616		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE,

SN, TD, TG
PRIORITY APPLN. INFO.: US 2003-488071P 20030716
OTHER SOURCE(S): CASREACT 142:261406
AB Title compds. represented by the formula I [wherein R1 = H, halo, (fluoro)methyl; R2-R5 = independently H, halo, (sulfon)amide, etc.; R6 = H, (halo)alkyl, (halo)alkenyl, (halo)alkynyl; R7 = CH2OH, CHO, CO2H or C(R8)(R9)CO2H; R8, R9 = independently H, OH, (fluoro)methyl; and pharmaceutically acceptable salts, esters, amides or prodrugs thereof] were prepared as hepatocyte nuclear factor 4α (HNF-4α) receptor modulators. For example, condensation of aniline with Me 4-formylbenzoate, followed by reaction with 3,4-dihydro-2H-pyran and hydrolysis, gave II. Selected I were tested for HNF-4α binding activity, agonistic activity and antagonistic activity. Thus, I and their pharmaceutical compns. are useful as HNF-4a receptor modulators for the treatment of syndrome X, noninsulin dependent diabetes mellitus, cancer, obesity, cardiovascular disease and dyslipidemia (no data).

MSTR 1



G2 = (1-3) 21

G7 = 58

G13 = O
Patent location: claim 1
Note: or pharmaceutically acceptable salts, esters, amides or prodrugs

L39 ANSWER 9 OF 11 MARPAT COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 141:424118 MARPAT Full-text
TITLE: A preparation of cyclopenta[c]quinoline derivatives, useful as positive modulators of nicotinic acetylcholine receptors
INVENTOR(S): Becker, Christopher; Comstock, Jeanne; Michne, William F.; Murphy, Megan; Phillips, Eifion; Rosamond, James D.; Simpson, Thomas R.

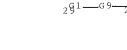
PATENT ASSIGNEE(S): Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE: PCT Int. Appl., 35 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004098600	A1	20041118	WO 2004-GB1934	20040504
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2004237130	A1	20041118	AU 2004-237130	20040504
CA 2524019	A1	20041118	CA 2004-2524019	20040504
EP 1631288	A1	20060308	EP 2004-731052	20040504
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK, HR				
BR 2004010050	A	20060425	BR 2004-10050	20040504
CN 1784230	A	20060607	CN 2004-80012314	20040504
JP 2006525302	T	20061109	JP 2006-506220	20040504
MX 2005PA11785	A	20060126	MX 2005-PA11785	20051101
NO 2005005766	A	20051205	NO 2005-5766	20051205
US 20070179172	A1	20070802	US 2006-553915	20060713
PRIORITY APPLN. INFO.:			SE 2003-1320	20030506
			WO 2004-GB1934	20040504

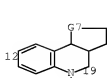
AB The invention relates to a preparation of cyclopenta[c]quinoline derivs. of formulas I and II [wherein: X is O, S, or CH2; R1 is OH, NH2, N(alkyl)2, SO2NH2, or C(O)N(alkyl)2, etc.; Ar is furyl, pyridyl, thienyl, Ph, or naphthyl, etc.], useful as pos. modulators of nicotinic acetylcholine receptors. For instance, cyclopenta[c]quinoline derivative I (Ar is 1-naphthyl; R = SO2NH2) was prepared from 1-naphthalenecarboxaldehyde, cyclopentadiene, and 4-aminobenzenesulfonamide with a yield of 69%. The invention compds. were screened for biol. activity in the following tests: a) Xenopus oocyte current recording, and b) Ca++ flux imaging [the invention compds. cause 100% potentiation (2-fold increase) of baseline current].

MSTP 1

G1 = 38



G4 = NH
G7 = O
G8 = furyl (opt. substd. by (1-3) G3)
G9 = 12-29 19-28



Patent location: claim 1
Note: or pharmaceutically acceptable salts
Stereochemistry: or diastereoisomers, enantiomers

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 10 OF 11 MARPAT COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 140:253456 MARPAT Full-text
TITLE: Preparation of 1,2,3,4-tetrahydro-4-phenylquinolines and related compounds as sodium channel ligands for the treatment of pain
INVENTOR(S): Hennies, Hagen-Heinrich; Maul, Corinna; Przewosny, Michael; Sundermann, Bernd
PATENT ASSIGNEE(S): Gruenenthal G.m.b.H., Germany
SOURCE: Ger. Offen., 55 pp.
CODEN: GWXXBX
DOCUMENT TYPE: Patent
LANGUAGE: German
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 10236910	A1	20040311	DE 2002-10236910	20020812
WO 2004022542	A2	20040318	WO 2003-EP8889	20030811
WO 2004022542	A3	20040603		

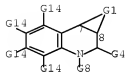
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

AU 2003258598	A1	20040329	AU 2003-258598	20030811
PRIORITY APPLN. INFO.:			DE 2002-10236910	20020812
			WO 2003-EP8889	20030811

AB Title compds. I [Rb and R2 together = (CH2)n, CH=CHCH2, CH2CH=CH, etc.; n = 3-10; Ra = H; R3 = H, alkyl, cycloalkyl, etc.; R4 = R4a, ZR4a; R4a = H, alkyl, alkenyl, etc.; Z = alkyl, alkenyl, alkynyl, etc.; R5, R6, R7, R8 = H, halo, CN, etc.] and their pharmaceutically acceptable salts were prepared In sodium

channel [3H]batrachotoxin (BTX) displacement assays, 261-examples of compds. I exhibited 00.0-91.7% binding, e.g., the affinity of tetrahydroquinoline was 91.7%.

MSTR 1A



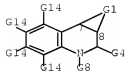
G1 = 30-7 32-8

G4 = Ph (opt. substd.)
G14 = 166

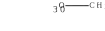
G22 = 150

Patent location:	claim 1
Note:	oxygen in G18 and G20 is free radical
Note:	additional ring formation also claimed
Note:	and/or salts with physiologically acceptable acids
Note:	substitution is restricted
Stereochemistry:	and racemates, enantiomers, diastereomers or mixtures

MSTR 1C



G1 = 30-7 32-8



G4 = anthracenyl
G14 = 166

G22 = 150

Patent location: claim 1
Note: oxygen in G18 and G20 is free radical
Note: additional ring formation also claimed
Note: and/or salts with physiologically acceptable acids
Note: substitution is restricted
Stereochemistry: and racemates, enantiomers, diastereomers or mixtures

REFERENCE COUNT: 4 THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L39 ANSWER 11 OF 11 MARPAT COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 132:64182 MARPAT Full-text
TITLE: Preparation of di- and tetrahydroquinolinylindoles and related compounds as antibacterials.
INVENTOR(S): Cuny, Gregory D.; Hauske, James R.; Hoemann, Michael Z.; Rossi, Richard F.; Xie, Roger Leijie
PATENT ASSIGNEE(S): Sepracor, Inc., USA
SOURCE: PCT Int. Appl., 130 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9967238	A2	19991229	WO 1999-US14277	19990625
WO 9967238	A3	20030417		

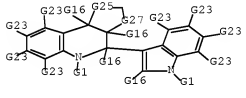
W: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK,

MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ,
TM, TR, TT, UA, UG, UZ, VN, YU, ZA, ZW
RW: GH, GM, KE, LS, MW, SD, SL, SZ, UG, ZW, AM, AZ, BY, KG, KZ, MD,
RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT,
LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR,
NE, SN, TD, TG

AU 9945835	A	20000110	AU 1999-45835	19990625
US 6180640	B1	20010130	US 1999-344619	19990625
PRIORITY APPLN. INFO.:			US 1998-90624P	19980625
			WO 1999-US14277	19990625

AB Title compds. [I; A, B = atoms to form (substituted) mono- or polycyclic cycloalkyl, cycloalkenyl, aryl, heteroaryl, heterocyclyl; X, Y = CR2, NR, O, PR, S, AsR, Se; R, R1, R2, R3, R31, R4, R41 = H, halo, alkyl, alkenyl, alkynyl, OH, alkoxy, silyloxy, amino, NO2, SH, alkylthio, amide, phosphonate, acetal, aryl, heteroaryl, N3, carbamate, hydroxamate, sulfonamide, thiocarbamate, guanidino, amidino, etc.; R5, R6 = halo, alkyl, alkenyl, alkynyl, OH, alkoxy, silyloxy, amino, SH, alkylthio, imine, amide, phosphoryl, phosphonate, carbonyl, CO2H, carboxamide, ketone, aldehyde, cyano, carbamate, etc.], were prepared Thus, 4-(3-piperidinyl)propargylaniline (preparation given), N-Teoc-5-bromoindole-3- carboxaldehyde, and cat. TsOH were refluxed in C6H6 to give a residue which was stirred with 2,3-dihydrofuran and ytterbium triflate in MeCN to give 45%8-[3-(N-piperidinyl)propargyl]-2,3,3a,4,5,9b-hexahydro-4-(5-bromo- 3-cis,trans-N-Teoc-indolyl)furo[2,3-c]quinoline. This was stirred with TBAF in THF followed by chromatog. to give 78% 45%8-[3-(N-piperidinyl)propargyl]-2,3,3a,4,5,9b-hexahydro-4-(5-bromo-3-cis-indolyl)furo[2,3-c]quinoline. The latter at 2% in pig wounds inoculated with staphylococcus aureus showed log CFU/mL = 5.92 after 24 h, vs. 6.54 for untreated controls.

MSTR 2



G17 = NH (opt. substd.)
G18 = 67

G23 = 132

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G25     = O
G27     = (1-3) CH2
Patent location:            claim 19
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FILE 'HCAPLUS' ENTERED AT 13:13:53 ON 07 JUN 2008
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FILE LAST UPDATED: 6 Jun 2008  (20080606/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

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                 SULFONAMIDE, 3A,4,5,9B-TETRAHYDRO-4-(2-METHYLPHENYL)-"/CN
L40            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5


=> D IBIB ED ABS HITSTR L40 1

L40  ANSWER 1 OF 1  HCAPLUS  COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER:         2004:995974  HCAPLUS  Full-text
DOCUMENT NUMBER:          141:424118
TITLE:                    A preparation of cyclopenta[c]quinoline derivatives,
                          useful as positive modulators of nicotinic
                          acetylcholine receptors
INVENTOR(S):              Becker, Christopher; Comstock, Jeanne; Michne, William
                          F.; Murphy, Megan; Phillips, Eifion; Rosamond, James
                          D.; Simpson, Thomas R.
PATENT ASSIGNEE(S):       Astrazeneca AB, Swed.; Astrazeneca UK Limited
SOURCE:                   PCT Int. Appl., 35 pp.
                          CODEN: PIXXD2
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.          KIND   DATE        APPLICATION NO.        DATE
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     WO 2004098600        A1    20041118    WO 2004-GB1934         20040504
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             LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI,
             NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY,
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    CA 2524019             A1     20041118    CA 2004-2524019         20040504
    EP 1631288             A1     20060308    EP 2004-731052          20040504
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    JP 2006525302          T      20061109    JP 2006-506220          20040504
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    NO 2005005766          A      20051205    NO 2005-5766            20051205
    US 20070179172         A1     20070802    US 2006-553915          20060713
PRIORITY APPLN. INFO.:                         SE 2003-1320        A   20030506
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OTHER SOURCE(S):          MARPAT 141:424118
ED   Entered STN:  19 Nov 2004
GI
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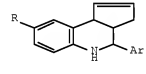

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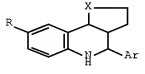

II

AB The invention relates to a preparation of cyclopenta[c]quinoline derivs. of formulas I and II [wherein: X is O, S, or CH2; R1 is OH, NH2, N(alkyl)2, SO2NH2, or C(O)N(alkyl)2, etc.; Ar is furyl, pyridyl, thienyl, Ph, or naphthyl, etc.], useful as pos. modulators of nicotinic acetylcholine receptors. For instance, cyclopenta[c]quinoline derivative I (Ar is 1-naphthyl; R = SO2NH2) was prepared from 1-naphthalenecarboxaldehyde, cyclopentadiene, and 4-aminobenzenesulfonamide with a yield of 69%. The invention compds. were screened for biol. activity in the following tests: a) Xenopus oocyte current recording, and b) Ca++ flux imaging [the invention compds. cause 100% potentiation (2-fold increase) of baseline current].

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IT   794586-79-1P
     RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
     (Uses)
        (preparation of cyclopenta[c]quinoline derivs. useful as pos. modulators of
        nicotinic acetylcholine receptors)
RN   794586-79-1  HCAPLUS
CN   3H-Cyclopenta[c]quinoline-8-sulfonamide, 3a,4,5,9b-tetrahydro-4-(2-
     methylphenyl)-  (CA INDEX NAME)
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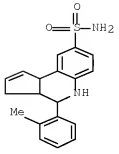

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Search History

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